

8. Specialized Abbreviations and Acronyms

ABL	atmospheric boundary layer
ACATS	Airborne Chromatograph for Atmospheric Trace Species
ACCENT	Atmospheric Chemistry and Combustion Effects Near the Tropopause
ACD	Atmospheric Chemistry Division (NCAR)
ACE	Aerosol Characterization Experiment
ACE-Asia	Asian Pacific Regional Aerosol Characterization Experiment
ACSYS	Arctic Climate System Study
AE	auroral electrojet
AERONET	Aerosol Robotics Network (NASA)
AES	Atmospheric Environment Service (Canada)
AGAGE	Advanced Global Atmospheric Gases Experiment
AIRKIT	Air Kitzis sampler
AIRS	Atmospheric Infrared Sounder
ALE	Atmospheric Lifetime Experiment
ALIAS	Aircraft Laser Infrared Absorption Spectrometer
ALT	Alert, Canada, sampling site
ANSTO	Australian Nuclear Science and Technology Organization
AOD	aerosol optical depth
AOML	Atlantic Oceanographic and Meteorological Laboratory (NOAA)
ARL	Air Resources Laboratory (NOAA)
ARM	Atmospheric Radiation Measurement (DOE)
ARO	Arctic Research Office (NOAA)
ARO	Atmospheric Research Observatory (South Pole, Antarctica)
ASA	Antarctic Support Associates
ASL	above sea level
ATLAS	Airborne Tunable Laser Absorption Spectrometer
ATMOS	Atmospheric Trace Molecule Spectroscopy
AVHRR	Advanced Very High Resolution Radiometer
BACPAC	Bromine Air-sea Cruise Pacific
BAO	Boulder Atmospheric Observatory
BASC	Barrow Arctic Science Consortium
BC	black carbon
BIF	Balloon Inflation Facility
BND	Bondville, Illinois
BRW	Barrow Observatory, Barrow, Alaska (CMDL)
BSI	Biospherical Instruments Inc., San Diego, California
BSRN	Baseline Surface Radiation Network
CADIC	Centro Austral de Investigaciones Cientificas, Argentina
CAF	Clean Air Facility (South Pole, Antarctica)
CALTECH	California Institute of Technology
CART	Cloud and Radiation Testbed
CAS	Clean Air Sector
CASA	Carnegie-Ames-Stanford Approach
CATS	Chromatograph for Atmospheric Trace Species
CCGG	Carbon Cycle Greenhouse Gases group (CMDL)
CCN	cloud condensation nuclei
CCRL	Carbon Cycle Research Laboratory
CDIAC	Carbon Dioxide Information Analysis Center
CERES	Clouds and Earth's Radiant Energy System
CFC	chlorofluorocarbon
CGO	Cape Grim Observatory, Tasmania, Australia
CIRES	Cooperative Institute for Research in Environmental Sciences (University of Colorado)
CLaMS	Chemical Lagrangian Model of the Stratosphere
CLIVAR	Climate Variability and Predictability Programme
CMDL	Climate Monitoring and Diagnostics Laboratory (NOAA)
CN	condensation nuclei
CNC	condensation nuclei counter
CRN	Climate Reference Network (NOAA)

CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
CUCF	Central UV Calibration Facility
DEW	Distant Early Warning
DFIR	double fence intercomparison reference
DMS	dimethyl sulfide
DNA	deoxyribonucleic acid
DOE	U.S. Department of Energy
DOY	day of year
DRUM	Davis Rotating-drum Unit for Monitoring
DSRC	David Skaggs Research Center (Boulder, Colorado)
DU	Dobson unit
DU	University of Denver
EC	elemental carbon
ECC	electrochemical concentration cell
ECD	electron capture detector
ECI	equivalent chlorine
ECMWF	European Centre for Medium-Range Weather Forecasts
EECI	effective equivalent chlorine
EESC	effective equivalent stratospheric chlorine
EML	Environmental Measurements Laboratory (DOE)
ENSO	El Niño/Southern Oscillation
EOS	Earth Observing System
EPA	Environmental Protection Agency
ETCI	equivalent tropospheric chlorine
FID	flame ionization detector
FSU	Florida State University
FSU	Former Soviet Union
FT	free troposphere
FTIR	Fourier transform infrared (spectrometer)
FTP	File Transfer Protocol
FTS	Fourier transform spectrometer
FWHM	full width at half maximum
FWNIP	filter wheel normal incidence pyrheliometer
GAGE	Global Atmospheric Gases Experiment
GAME	GEWEX Asian Monsoon Experiment
GAW	Global Atmospheric Watch
GC	gas chromatograph
GC	graphitic carbon
GCM	global circulation model
GC-MS	gas chromatograph-mass spectrometer
GEOSECS	Geochemical Ocean Sections
GEWEX	Global Energy and Water Cycle Experiment
GFDL	Geophysical Fluid Dynamics Laboratory (NOAA)
GMCC	Geophysical Monitoring for Climatic Change (now CMDL) (NOAA)
GPS	Global Positioning System
HALOE	Halogen Occultation Experiment
HAO	High Altitude Observatory
HATS	Halocarbons and other Atmospheric Trace Species group (CMDL)
HC	hydrocarbon
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
HP	Hewlett-Packard
HPA	Hawaii Preparatory Academy
HRDI	High Resolution Doppler Imager
HST	Hawaii Standard Time
HVO	Hawaii Volcano Observatory
IAC	Institute of Atmospheric Chemistry (China)
IAEA	International Atomic Energy Agency
IC	ion chromatograph
ICP	inductively coupled plasma
ICP	intercomparison
IFP	Intensive Field Phase

IFT	Institute for Tropospheric Research
IMF	interplanetary magnetic field
INDOEX	Indian Ocean Experiment
INSTAAR	Institute for Arctic and Alpine Research (University of Colorado)
IPASRC-I	International Pyrgeometer and Absolute Sky-scanning Radiometer Comparison
IPC	International Pyrheliometer Comparison
IPCC	Intergovernmental Panel on Climate Change
IR	infrared
ISCAT	Investigation of Sulfur Chemistry in the Antarctic Troposphere
ITCZ	Intertropical Convergence Zone
ITN	Grifton, North Carolina, sampling site
JMA	Japan Meteorological Agency
JOSIE	Jülich Ozonesonde Intercomparison Experiment
JPL	Jet Propulsion Laboratory
KCO	Kaashidhoo Climate Observatory
KUM	Cape Kumukahi, Hawaii, sampling site
LACE	Lightweight Airborne Chromatograph Experiment
LAN	Local Area Network
LDI TOFMS	Laser Desorption Ionization Time-of-Flight Mass Spectrometer
LEAPS	Low Electron Attachment Potential Species
MAGICC	Measurements of Atmospheric Gases Influencing Climate Change
MAKS	Martin and Kitzis Sampler
MATCH	Model of Atmospheric Transport and Chemistry
MBL	marine boundary layer
MFRSR	multi-filter rotating shadowband radiometer
MHD	Mace Head, Ireland, sampling site
MLN	Mauna Loa New
MLO	Mauna Loa Observatory, Hawaii (CMDL)
MOPITT	Measurement of Pollution in the Troposphere
MRD	mercuric oxide reduction detector
MRI	Meteorological Research Institute, Japan
MRI	Meteorology Research, Inc.
MSC	Meteorological Service of Canada
MSD	mass selective detector
NARL	Naval Arctic Research Laboratory
NASA	National Aeronautics and Space Administration
NAT	nitric acid trihydrate
NAVSWC	Naval Surface Weapons Center
NCAR	National Center for Atmospheric Research
NCDC	National Climatic Data Center
NCEP	National Centers for Environmental Prediction (NOAA)
NDIR	non-dispersive infrared analyzer
NDSC	Network for the Detection of Stratospheric Change
NERL	National Exposure Research Laboratory
NH	northern hemisphere
NILU	Norwegian Institute for Air Research
NIP	normal incidence pyrheliometer
NIST	National Institute of Standards and Technology (U.S. Dept. of Commerce)
NIWA	National Institute of Water and Atmospheric Research (New Zealand)
NOAA	National Oceanic and Atmospheric Administration (U.S. Dept. of Commerce)
NODC	National Oceanographic Data Center
NPC	NREL Pyrheliometer Comparison
NRC	National Research Council
NREL	National Renewable Energy Laboratory
NRL	Naval Research Laboratory
NSF	National Science Foundation
NSFA	Naval Support Force Antarctica
NSRB	net surface radiation budget
NWR	Niwot Ridge, Colorado, sampling site
NWS	National Weather Service (NOAA)
OAR	Oceanic and Atmospheric Research (NOAA)
OC	organic carbon

OD	outside diameter
OMS	Observations of the Middle Stratosphere
OPP	Office of Polar Programs (NSF)
OTTO	automated flask GC-ECD instrument (not an acronym)
PAN	peroxyacetyl nitrate
PANTHER	PAN and other Trace Hydrohalocarbons Experiment
PAR	photosynthetically active radiation
PBL	planetary boundary layer
PEM Tropics	Pacific Exploratory Mission in the Tropics
PFC	perfluorocarbon
PFR	precision filter radiometer
PMEL	Pacific Marine Environment Laboratory (NOAA)
PMOD	Physikalisch-Meteorologisches Observatorium Davos (World Radiation Center)
POES	Polar Operational Environmental Satellite
POLARIS	Photochemistry of Ozone Loss in the Arctic Region in Summer
POP	persistent organic pollutant
ppb	parts per billion
ppt	parts per trillion
PSA	Palmer Station, Antarctica, sampling site
PSAP	particle soot absorption photometer
PSC	polar stratospheric cloud
PSP	precision spectral pyranometer
PV	photovoltaic
QBO	quasi-biennial oscillation
RAF	radiative amplification factor
RCF	Radiometer Calibration Facility
RITS	Radiatively Important Trace Species
RPS	Raytheon Polar Services
SAFARI	Southern African Fire-Atmosphere Research Initiative
SAGE	Stratospheric Aerosol and Gas Experiment
SASP	Surface Air Sampling Program
SBUV	solar backscatter ultraviolet
SC	sky cover
SCAR	Scientific Committee in Antarctic Research
SD	standard deviation
SEAREX	Sea-Air Exchange Experiment
SEASPACE	SEAREX South Pacific Aerosol Network
SEC	Space Environment Center (NOAA)
SGP	Southern Great Plains (Lamont, Oklahoma)
SH	southern hemisphere
SHADOZ	Southern Hemisphere Additional Ozonesondes
SHEBA	Study of the Heat Budget in the Arctic
SIL	Stable Isotope Laboratory (INSTAAR)
SIO	Scripps Institution of Oceanography (University of California, San Diego)
SMO	Samoa Observatory, American Samoa (CMDL)
SOLVE	SAGE III Ozone Loss and Validation Experiment
SOWER	Soundings of Ozone and Water in the Equatorial Region
SPO	South Pole Observatory, Antarctica (CMDL)
SRF	Solar Radiation Facility (CMDL)
SRM	Standard Reference Material
SRRB	Surface Radiation Research Branch (NOAA)
SST	sea surface temperature
STAR	Solar and Thermal Atmospheric Radiation group (CMDL)
STEP	Solar-Terrestrial Energy Program
SUNY	State University of New York
S-XRF	synchrotron-x-ray fluorescence
SZA	solar zenith angle
TCT	thermal deposition cold trap
TDF	Ushuaia Observatory (near Tierra del Fuego, Argentina), sampling site
TEI	Thermo Environmental Instruments
TEO	Territorial Energy Office
TEXAQS	Texas Air Quality Study

THD	Trinidad Head, California, sampling site
THESEO	Third European Stratospheric Experiment on Ozone
TM3	Tracer Model 3
TOMS	Total Ozone Mapping Spectrometer
TOMS ³ F	Total Ozone Measurements by Satellites, Sondes, and Spectrophotometers at Fairbanks
TOR	thermal optical reflectance
TRACE-P	Transport and Chemical Evolution over the Pacific
TROIKA	Trans-Siberian Observations Into the Chemistry of the Atmosphere
TSI	Thermo Systems Incorporated
UAF	University of Alaska, Fairbanks
UCI	University of California, Irvine
UCSD	University of California, San Diego
UIC	Ukpeagvik Inupiat Corporation (Alaska)
UNEP	United Nations Environmental Programme
UPS	uninterruptible power supply
USAP	U.S. Antarctic Program
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UTC	Universal Time Coordinated
UV	ultraviolet
UVB	ultraviolet B band
VOC	volatile organic compound
VOGNET	Volcano Gas observatory Network
WAS	Whole Air Sampler
WCRP	World Climate Research Program
WEPC	water equivalent precipitation
WERC	Water and Environmental Research Center
WMO	World Meteorological Organization, Geneva, Switzerland
WOCE	World Ocean Circulation Experiment
WOUDC	World Ozone and Ultraviolet Data Centre (Canada)
WRC	World Radiometric Center
WRR	World Radiation Reference
WSA	Sable Island, Canada
WSG	World Standard Group
WVMS	Water Vapor Millimeter-wave Spectrometer
YES	Yankee Environmental Systems